

INTERNATIONAL SEARCH REPORT

International Application No

PC1/GB2004/004740

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/81 A61K38/57 A61K9/16 A61K9/19

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, EMBASE, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 96/32152 A (INHALE THERAPEUTIC SYST) 17 October 1996 (1996-10-17) page 5, line 4 - line 16 page 10, line 4 - line 16 page 11, line 8 - line 11 page 17, line 11 - line 14	1-21
X	WO 98/16205 A (INHALE THERAPEUTIC SYST ; KUO MEI CHANG (US); FOSTER LINDA C (US); BIL) 23 April 1998 (1998-04-23) page 67, line 1 - page 68, line 17 ----- -/--	1-21

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

14 January 2005

Date of mailing of the international search report

27/01/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>VEMURI S ET AL: "Effect of cryoprotectants on freezing, lyophilization, and storage of lyophilized recombinant alpha 1-antitrypsin formulations." PDA JOURNAL OF PHARMACEUTICAL SCIENCE AND TECHNOLOGY / PDA. 1994 SEP-OCT, vol. 48, no. 5, September 1994 (1994-09), pages 241-246, XP009042626 ISSN: 1079-7440 abstract page 241, left-hand column, line 13 - line 15 page 242, left-hand column, paragraph "Alpha 1-antitrypsin" page 243, left-hand column, last paragraph page 243, right-hand column, paragraph 4 page 245; table 3 page 245 - page 246, paragraph "Conclusion"</p>	1-21
P,X	<p>WO 2004/060528 A (AVENTIS BEHRING L L C) 22 July 2004 (2004-07-22) page 11, line 9 - page 12, line 25 page 13, line 20 - line 23 page 16, line 10 - line 12 page 17; table 1 page 18; table 2 page 19; table 3</p>	1-21
A	<p>WO 00/54797 A (NOVARTIS ERFINDE VERWALT GMBH ; SCHOTTE UWE THOMAS (CH); ARVINTE TUDOR ()) 21 September 2000 (2000-09-21) page 2, paragraphs 2,3 page 4, paragraph 3 page 11; example 2 page 15; claim 1</p>	1-21

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004740

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9632152	A	17-10-1996	US 6582728 B1	24-06-2003
			US 5780014 A	14-07-1998
			AT 260688 T	15-03-2004
			AT 261742 T	15-04-2004
			AU 2369599 A	08-07-1999
			AU 703491 B2	25-03-1999
			AU 5482596 A	30-10-1996
			AU 702150 B2	18-02-1999
			AU 5482796 A	30-10-1996
			BR 9609497 A	02-03-1999
			CA 2218116 A1	17-10-1996
			CA 2218208 A1	17-10-1996
			DE 69631786 D1	08-04-2004
			DE 69631881 D1	22-04-2004
			DE 69631881 T2	19-08-2004
			EP 1428524 A1	16-06-2004
			EP 0866726 A1	30-09-1998
			EP 0825885 A1	04-03-1998
			ES 2217309 T3	01-11-2004
			ES 2215191 T3	01-10-2004
			JP 10509738 T	22-09-1998
			JP 11503731 T	30-03-1999
			US 2002122827 A1	05-09-2002
			US 2002127188 A1	12-09-2002
			US 2002117170 A1	29-08-2002
			WO 9632152 A1	17-10-1996
			WO 9632149 A1	17-10-1996
			US 2003068279 A1	10-04-2003
			US 2003086877 A1	08-05-2003
			US 2003198601 A1	23-10-2003
			US 2003129141 A1	10-07-2003
			US 2003185765 A1	02-10-2003
			US 2003215514 A1	20-11-2003
			US 2003215512 A1	20-11-2003
			US 6372258 B1	16-04-2002
			US 6423344 B1	23-07-2002
			US 6514496 B1	04-02-2003
			US 6673335 B1	06-01-2004
			US 6051256 A	18-04-2000
			US 6258341 B1	10-07-2001
			US 2002141945 A1	03-10-2002
			US 6309671 B1	30-10-2001
			US 6019968 A	01-02-2000
			US 5993783 A	30-11-1999
WO 9816205	A	23-04-1998	US 6258341 B1	10-07-2001
			AT 245969 T	15-08-2003
			AU 734891 B2	28-06-2001
			AU 5083498 A	11-05-1998
			CA 2274758 A1	23-04-1998
			CN 1240349 A , B	05-01-2000
			DE 69723854 D1	04-09-2003
			DE 69723854 T2	22-04-2004
			DK 941067 T3	17-11-2003
			EA 2055 B1	24-12-2001
			EP 1342469 A2	10-09-2003
			EP 0941067 A2	15-09-1999
			ES 2203792 T3	16-04-2004

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PC1/GB2004/004740

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9816205 A		HU 0001108 A2	28-08-2000
		NZ 336171 A	29-06-2001
		PT 941067 T	31-12-2003
		SI 941067 T1	29-02-2004
		TW 504389 B	01-10-2002
		WO 9816205 A2	23-04-1998
		US 2003215512 A1	20-11-2003
		US 2002141945 A1	03-10-2002
		US 6309671 B1	30-10-2001
		ZA 9709145 A	11-05-1998
WO 2004060528 A	22-07-2004	US 2004124143 A1	01-07-2004
		WO 2004060528 A1	22-07-2004
WO 0054797 A	21-09-2000	AU 3556400 A	04-10-2000
		WO 0054797 A2	21-09-2000
		EP 1161257 A2	12-12-2001
		JP 2002539172 T	19-11-2002
		US 2002064516 A1	30-05-2002